

FILE 'HOME' ENTERED AT 13:53:05 ON 13 MAR 2003

=> fie caplus

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> file caplus

COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
0.21	0.21

FILE 'CAPLUS' ENTERED AT 13:53:22 ON 13 MAR 2003

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FILE COVERS 1907 - 13 Mar 2003 VOL 138 ISS 11

FILE LAST UPDATED: 12 Mar 2003 (20030312/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> cinnamaldehyde

7135 CINNAMALDEHYDE
252 CINNAMALDEHYDES

L1 7224 CINNAMALDEHYDE

(CINNAMALDEHYDE OR CINNAMALDEHYDES)

=> reductive amination

50873 REDUCTIVE
4 REDUCTIVES
50877 REDUCTIVE

(REDUCTIVE OR REDUCTIVES)

25446 AMINATION
256 AMINATIONS
25496 AMINATION

(AMINATION OR AMINATIONS)

L2 4391 REDUCTIVE AMINATION

(REDUCTIVE (W) AMINATION)

=> l1 and l2

L3 13 L1 AND L2

=> d 13 1-13 ti

- L3 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Supercritical hydrogenation of substrates
- L3 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Reductive amination of aldehydes and ketones by a Hantzsch dihydropyridine using scandium triflate as a catalyst
- L3 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Direct reductive amination of aldehydes and ketones using phenylsilane: catalysis by dibutyltin dichloride
- L3 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Reductive amination process using a homogeneous iridium catalyst for the conversion of aldehydes and ketones into amines
- L3 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI A single-step reductive amination of carbonyl compounds with polymethylhydrosiloxane-Ti(O*i*Pr)₄
- L3 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Chemoselective reductive amination of aldehydes and ketones by dibutylchlorotin hydride-HMPA complex
- L3 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI N-Alkyl-N-cyclopropylanilines as Mechanistic Probes in the Nitrosation of N,N-Dialkyl Aromatic Amines
- L3 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Reductive amination of aldehydes and ketones with dimethylamine using borohydride exchange resin (BER)
- L3 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI One-Pot Reductive Amination of Conjugated Aldehydes and Ketones with Silica Gel and Zinc Borohydride
- L3 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Trichlorosilane-dimethylformamide (Cl₃SiH-DMF) as an efficient reducing agent. Reduction of aldehydes and imines and reductive amination of aldehydes under mild conditions using hypervalent hydridosilicates
- L3 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Reductive amination of piperidines with aldehydes using borane-pyridine
- L3 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Electroorganic chemistry. 140. Electroreductively promoted intra- and intermolecular couplings of ketones with nitriles.
- L3 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2003 ACS
TI Saturated heterocyclic carboxamides, especially thiazolidinecarboxamides, useful as PAF antagonists, their pharmaceutical compositions, and processes and intermediates for their preparation

=> palladium

128271 PALLADIUM
33 PALLADIUMS

L4 128275 PALLADIUM
(PALLADIUM OR PALLADIUMS)

=> 13 and 14
L5 1 L3 AND L4

=> d 15 ti fbib abs

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS
TI Supercritical hydrogenation of substrates
AN 2002:793577 CAPLUS
DN 137:296565
TI Supercritical hydrogenation of substrates
IN Ross, Stephen Keith; Meehan, Nicola Jane; Poliakoff, Martyn; Carter, Daniel N.
PA Thomas Swan & Co. Ltd., UK
SO PCT Int. Appl., 20 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002081414	A2	20021017	WO 2002-GB1387	20020404
	WO 2002081414	A3	20021212		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		GB 2001-8775	A 20010406

AB 2374071 A1 20021009 GB 2001-8775 20010406
The present invention relates to a method of carrying out hydrogenation of

a substrate (e.g., aniline) in the presence of a supercrit. fluid such that more than one phase is present in the reaction medium. The reaction is performed under continuous conditions. The process leads to improved yields of the desired hydrogenated product (e.g., cyclohexylamine). The process also enables the selective formation of a particular product

where

the formation of more than one product is possible; a process flow diagram is presented.

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	15.35	15.56
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.65	-0.65

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 13:56:16 ON 13 MAR 2003

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1623paz

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *

SESSION RESUMED IN FILE 'CAPLUS' AT 13:59:35 ON 13 MAR 2003

FILE 'CAPLUS' ENTERED AT 13:59:35 ON 13 MAR 2003

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	15.35	15.56

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.65	-0.65

=> rrreductive alkylation
0 RREDUCTIVE
85894 ALKYLATION
2244 ALKYLATIONS
86423 ALKYLATION
(ALKYLATION OR ALKYLATIONS)
L6 0 RREDUCTIVE ALKYLATION
(RREDUCTIVE (W) ALKYLATION)

=> reductive alkylation
50873 REDUCTIVE
4 REDUCTIVES
50877 REDUCTIVE
(REDUCTIVE OR REDUCTIVES)
85894 ALKYLATION
2244 ALKYLATIONS
86423 ALKYLATION
(ALKYLATION OR ALKYLATIONS)
L7 2737 REDUCTIVE ALKYLATION
(REDUCTIVE (W) ALKYLATION)

=> d his
(FILE 'HOME' ENTERED AT 13:53:05 ON 13 MAR 2003)

FILE 'CAPLUS' ENTERED AT 13:53:22 ON 13 MAR 2003
L1 7224 CINNAMALDEHYDE
L2 4391 REDUCTIVE AMINATION
L3 13 L1 AND L2
L4 128275 PALLADIUM
L5 1 L3 AND L4
L6 0 RREDUCTIVE ALKYLATION
L7 2737 REDUCTIVE ALKYLATION

=> 11 and 17

L8 13 L1 AND L7

=> l8 not l3

L9 12 L8 NOT L3

=> d 19 1-12 ti

L9 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2003 ACS

TI Preparation of novel N-alkylaspartylamide derivatives as sweeteners

L9 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2003 ACS

TI Reductive C-alkylation of barbituric acid derivatives with carbonyl compounds in the presence of platinum and palladium catalysts

L9 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2003 ACS

TI Process for the production of aspartyldipeptide ester derivatives, novel intermediates therefor and process for the production of the intermediates

L9 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2003 ACS

TI Functionalized cross-linked copolymers: a "C2-symmetric" solid-phase catalyst for enantioselective reactions

L9 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2003 ACS

TI Preparation of peptide lactams as inhibitors of peptide binding to MHC class II proteins

L9 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2003 ACS

TI Process for producing dioxane derivatives and pharmaceutical compositions comprising same as active ingredient

L9 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2003 ACS

TI Preparation of 2,7-diamino-1,2,3,4-tetrahydronaphthalenes as drugs

L9 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2003 ACS

TI Reduction of aldehyde with tributyltin hydride-hexamethylphosphoric triamide combined system

L9 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2003 ACS

TI A new reduction with hydrogen telluride

L9 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2003 ACS

TI 1-Benzhydryl-4-cinnamylpiperazine

L9 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2003 ACS

TI Reductive alkylation of aldehyde p-tolylsulfonylhydrazone with organolithium reagents

L9 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2003 ACS

TI Substituted .alpha.-benzylphenethylamines

=> palladium

128271 PALLADIUM

33 PALLADIUMS

L10 128275 PALLADIUM
(PALLADIUM OR PALLADIUMS)

=> l9 and l10

L11 2 L9 AND L10

=> d l11 1-2 ti

L11 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS
TI Reductive C-alkylation of barbituric acid derivatives with carbonyl compounds in the presence of platinum and palladium catalysts

L11 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS
TI Process for the production of aspartyldipeptide ester derivatives, novel intermediates therefor and process for the production of the intermediates

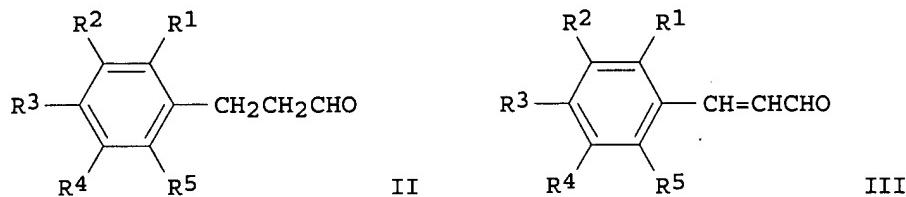
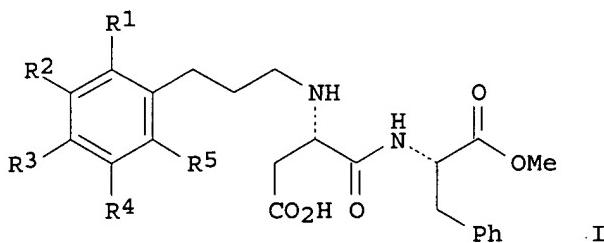
=> d l11 1-2 ti fbib abs

L11 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS
TI Reductive C-alkylation of barbituric acid derivatives with carbonyl compounds in the presence of platinum and palladium catalysts
AN 2001:420165 CAPLUS
DN 135:257210
TI Reductive C-alkylation of barbituric acid derivatives with carbonyl compounds in the presence of platinum and palladium catalysts
AU Jursic, B. S.; Neumann, D. M.
CS Department of Chemistry, University of New Orleans, New Orleans, LA, 70148, USA
SO Tetrahedron Letters (2001), 42(25), 4103-4107
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science Ltd.
DT Journal
LA English
OS CASREACT 135:257210
AB Effective synthetic procedures are described for the prepn. of mono- and di-C-alkylated barbituric acid derivs. through palladium and platinum catalytic hydrogenation of solns. of barbituric acids (unsubstituted, N-mono-, and N,N'-disubstituted barbituric acids) and carbonyl compds. (aliph. and arom. aldehydes and ketones).
RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS
TI Process for the production of aspartyldipeptide ester derivatives, novel intermediates therefor and process for the production of the intermediates
AN 2001:265443 CAPLUS
DN 134:281142
TI Process for the production of aspartyldipeptide ester derivatives, novel intermediates therefor and process for the production of the intermediates
IN Nagashima, Kazutaka; Aoki, Yuichi; Takemoto, Tadashi; Amino, Yusuke; Funakoshi, Nao; Ono, Eriko
PA Ajinomoto Co., Inc., Japan
SO PCT Int. Appl., 39 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2001025260	A1	20010412	WO 2000-JP6626	20000926
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				

	CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,	
	HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,	
	LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,	
	SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,	
	YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM	
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,	
	DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,	
	CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG	
	JP 1999-287398 A 19991007	
	JP 1999-371284 A 19991227	
AU 2000073219	A5 20010510	AU 2000-73219 20000926
	JP 1999-287398 A 19991007	
	JP 1999-371284 A 19991227	
	WO 2000-JP6626 W 20000926	
EP 1231215	A1 20020814	EP 2000-961237 20000926
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,	
	IE, SI, LT, LV, FI, RO, MK, CY, AL	
	JP 1999-287398 A 19991007	
	JP 1999-371284 A 19991227	
	WO 2000-JP6626 W 20000926	
US 2002133037	A1 20020919	US 2002-117196 20020408
	JP 1999-287398 A 19991007	
	JP 1999-371284 A 19991227	
	WO 2000-JP6626 A120000926	



AB Industrial and efficient processes for producing aspartyl dipeptide ester derivs. of general formula (I; R₁-R₅ = H, OH, C₁₋₃ alkoxy, C₁₋₃ alkyl, benzyloxy, C₂₋₃ hydroxyalkyloxy; or R₁ and R₂ or R₂ and R₃ together represents methylenedioxy), which are expected to serve as sweetener (no data), comprise **reductive alkylation** of aspartame with propionaldehydes or **cinnamaldehydes** of general formulas (II) and (III) in the presence of a catalyst. Particularly, described are an industrial and efficient process for producing N-[N-[3-(3-hydroxy-4-

is methoxyphenyl)propyl]-L-aspartyl]-L-phenylalanine 1-Me ester (IV) which excellent as high sweetener; useful and advantageous intermediates for the process; and efficient processes for producing the intermediates. Thus, 5.89 g aspartame and 3.42 g 3-(3-hydroxy-4-methoxyphenyl)propionaldehyde (prepn. given) were added to 200 mL 80% aq. methanol, stirred at 40.degree. for a while, and hydrogenated in the presence of 1.78 10% Pd-C at 0.1 M Pa and 40.degree. for 40 h to give 78.9% IV.

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> logoff hold			
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION	
FULL ESTIMATED COST	35.13	35.34	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION	
CA SUBSCRIBER PRICE	-1.95	-1.95	

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 14:02:45 ON 13 MAR 2003

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1623paz

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 14:19:23 ON 13 MAR 2003
FILE 'CAPLUS' ENTERED AT 14:19:23 ON 13 MAR 2003
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION	
FULL ESTIMATED COST	35.13	35.34	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION	
CA SUBSCRIBER PRICE	-1.95	-1.95	

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION	
FULL ESTIMATED COST	35.13	35.34	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION	
CA SUBSCRIBER PRICE	-1.95	-1.95	

FILE 'REGISTRY' ENTERED AT 14:19:39 ON 13 MAR 2003
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 12 MAR 2003 HIGHEST RN 498527-50-7
DICTIONARY FILE UPDATES: 12 MAR 2003 HIGHEST RN 498527-50-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

```
=> e cinnamaldehyde/cn
E1      1 CINNAMALACETOPHENONE TETRABROMIDE/CN
E2      1 CINNAMALANILINE/CN
E3      1 --> CINNAMALDEHYDE/CN
E4      1 CINNAMALDEHYDE 5-NITRO-2-PYRIDYLHYDRAZONE/CN
E5      1 CINNAMALDEHYDE ANIL/CN
E6      1 CINNAMALDEHYDE ANTIOXIME/CN
E7      1 CINNAMALDEHYDE CHLOROOXIME/CN
E8      1 CINNAMALDEHYDE CYCLIC ETHYLENE ACETAL/CN
E9      1 CINNAMALDEHYDE DI-TERT-BUTYL DITHIOACETAL/CN
E10     1 CINNAMALDEHYDE DIMETHYL ACETYL/CN
E11     1 CINNAMALDEHYDE DIPHENYL THIOACETAL/CN
E12     1 CINNAMALDEHYDE ETHYLENE GLYCOL ACETAL/CN
```

```
=> e3
L12      1 CINNAMALDEHYDE/CN
```

```
=> d l12
```

```
L12  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2003 ACS
RN  104-55-2  REGISTRY
CN  2-Propenal, 3-phenyl- (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN  Cinnamaldehyde (8CI)
OTHER NAMES:
CN  .beta.-Phenylacrolein
CN  3-Phenyl-2-propen-1-al
CN  3-Phenyl-2-propenal
CN  3-Phenyl-2-propenaldehyde
CN  3-Phenyl-2-propene-1-al
CN  3-Phenylacrolein
CN  3-Phenylacrylaldehyde
CN  3-Phenylpropenal
CN  Abion CA
CN  Benzylideneacetaldehyde
CN  Cassia aldehyde
CN  Cinnamal
CN  Cinnamic aldehyde
CN  Cinnamite
CN  Cinnamyl aldehyde
```

CN Phenylacrolein
CN Zimtaldehyde
FS 3D CONCORD
MF C9 H8 O
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6405 REFERENCES IN FILE CA (1962 TO DATE)
85 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
6419 REFERENCES IN FILE CAPLUS (1962 TO DATE)
5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
=> filecaplus
      0 FILECAPLUS
L13      0 FILECAPLUS

=> file caplus
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                                ENTRY        SESSION
FULL ESTIMATED COST          10.52         45.86

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE      TOTAL
                                                ENTRY        SESSION
CA SUBSCRIBER PRICE           0.00          -1.95
```

FILE 'CAPLUS' ENTERED AT 14:20:26 ON 13 MAR 2003
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FILE COVERS 1907 - 13 Mar 2003 VOL 138 ISS 11
FILE LAST UPDATED: 12 Mar 2003 (20030312/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 13:53:05 ON 13 MAR 2003)

FILE 'CAPLUS' ENTERED AT 13:53:22 ON 13 MAR 2003

L1 7224 CINNAMALDEHYDE
L2 4391 REDUCTIVE AMINATION
L3 13 L1 AND L2
L4 128275 PALLADIUM
L5 1 L3 AND L4
L6 0 RREDUCTIVE ALKYLATION
L7 2737 REDUCTIVE ALKYLATION
L8 13 L1 AND L7
L9 12 L8 NOT L3
L10 128275 PALLADIUM
L11 2 L9 AND L10

FILE 'REGISTRY' ENTERED AT 14:19:39 ON 13 MAR 2003
E CINNAMALDEHYDE/CN

L12 1 E3
L13 0 FILECAPLUS

FILE 'CAPLUS' ENTERED AT 14:20:26 ON 13 MAR 2003

=> l2 or l7
L14 6852 L2 OR L7

=> l12
L15 6420 L12

=> l15 or l1
L16 9948 L15 OR L1

=> l14 and l16
L17 33 L14 AND L16

=> l17 not (l3 or l9)
L18 8 L17 NOT (L3 OR L9)

=> d l18 1-8 ti

L18 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS
TI Preparation and formulation of thiazolidinecarboxamide derivatives as platelet-activating factor (PAF) antagonists

L18 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2003 ACS
TI .alpha.-Glucosidase inhibitors, 3. 4-(Alkylamino)-4,6-dideoxy sugars via reductive amination

L18 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2003 ACS
TI Reduction of reducible groups and their use

L18 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS
TI N-Substituted pseudo-amino sugars and their use

L18 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2003 ACS
 TI Valienamine derivatives and their use

 L18 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2003 ACS
 TI Adjacently disubstituted ketones, prostaglandins E1 and antithrombotic compositions containing them

 L18 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2003 ACS
 TI Reductive amination of .alpha.,.beta.-unsaturated carbonyl compounds with tetracarbonylhdyridoferrate as a reducing agent

 L18 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2003 ACS
 TI Synthesis of aldehydes

=> d l18 1-8 ti fbib abs

L18 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS
 TI Preparation and formulation of thiazolidinecarboxamide derivatives as platelet-activating factor (PAF) antagonists
 AN 1991:514494 CAPLUS
 DN 115:114494
 TI Preparation and formulation of thiazolidinecarboxamide derivatives as platelet-activating factor (PAF) antagonists
 IN Mase, Toshiyasu; Hara, Hiromu; Nagaoka, Hitoshi; Takahashi, Takumi; Suzuki, Takeshi; Tomioka, Kenichi; Yamada, Toshimitsu
 PA Yamanouchi Pharmaceutical Co., Ltd., Japan
 SO U.S., 82 pp. Cont.-in-part of U.S. Ser. No. 157,406, abandoned.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 2

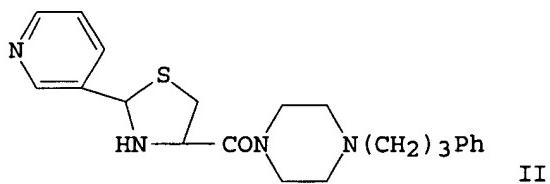
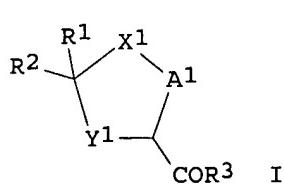
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4987132	A	19910122	US 1988-232899	19880816
				JP 1987-36950	19870220
				JP 1987-125259	19870521
				JP 1987-249499	19871001
				US 1988-157406	19880217
ZA	8801182	A	19881026	ZA 1988-1182	19880219
				JP 1987-36950	19870220
JP	02000179	A2	19900105	JP 1988-37224	19880219
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				JP 1987-125259	19870521
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JP	07002844	A2	19950106	JP 1993-205720	19930728
				JP 1987-36950	19870220
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				JP 1988-13928	19880125

PATENT FAMILY INFORMATION:

FAN	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
1989:23877					
PI	EP 279681	A2	19880824	EP 1988-301397	19880219
	EP 279681	A3	19891115		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
				JP 1987-36950	19870220

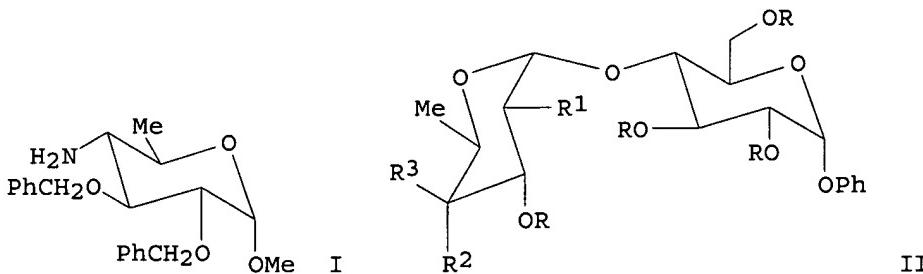
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FI 8800757	A	19880821	JP 1987-36950	19870220
FI 93113	B	19941115	JP 1987-125259	19870521
FI 93113	C	19950227	JP 1987-249499	19871001
DK 8800866	A	19880822	DK 1988-866 JP 1987-36950 JP 1987-125259 JP 1987-249499	19880219 19870220 19870521 19871001
NO 8800740	A	19880822	NO 1988-740 JP 1987-36950 JP 1987-125259 JP 1987-249499	19880219 19870220 19870521 19871001
ZA 8801182	A	19881026	ZA 1988-1182 JP 1987-36950	19880219 19870220
JP 02000179	A2	19900105	JP 1988-37224	19880219
JP 06031230	B4	19940427	JP 1987-36950 JP 1987-125259 JP 1987-249499	19870220 19870521 19871001
HU 50335	A2	19900129	JP 1988-13928 HU 1988-811 JP 1987-36950 JP 1987-125259 JP 1987-249499	19880125 19880219 19870220 19870521 19871001
AU 8812080	A1	19880825	AU 1988-12080	19880222
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AU 646156	B2	19940210	JP 1987-36950 JP 1987-125259 JP 1987-249499	19870220 19870521 19871001
JP 07002844	A2	19950106	JP 1993-205720 JP 1987-36950 JP 1987-125259 JP 1987-249499 JP 1988-13928	19930728 19870220 19870521 19871001 19880125

OS MARPAT 115:114494
GI



AB The title compds. [I; R1 = (un)substituted 5- or 6-membered hetero- or benzoheterocyclyl; R2 = H, alkyl, R1; X1 = O, S, CH₂, alkylidene; Y1 = O, S, NR₄; R4 = H, alkyl, CO₂H, acyl, alkoxy carbonyl; A1 = CH₂, CH₂CH₂, optionally substituted by alkyl groups; R3 = NR₅R₆, NHNR₈R₉, NR₁₀OR₁₁; one of R₅, R₆ = H, (un)substituted hydrocarbyl and the other = (un)substituted hydrocarbyl, R1; R₅R₆ = A₂ZR₇A₃, A₂OA₃; A₂, A₃ = (un)substituted alkylene; Z = CH, N; R₇ = H, CO₂H, acyl, alkoxy carbonyl, CONH₂, mono- or dialkyl carbamoyl, (un)substituted hydrocarbyl; R₈-R₁₁ = H, alkyl, aralkyl, aryl] are prep'd. as PAF antagonists. Amidation of 2-(3-pyridyl)thiazolidine-4-carboxylic acid with 1-(3-phenylpropyl)piperazine using DCC in the presence of 1-hydroxybenzotriazole in DMF gave 60% (thiazolidinyl carbonyl)piperazine II, isolated as its trihydrochloride, which had an IC₅₀ of 0.054 .μ.M in vitro for inhibition of PAF-induced rabbit platelet aggregation. Tablet formulation was given.

L18 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2003 ACS
 TI .alpha.-Glucosidase inhibitors, 3. 4-(Alkylamino)-4,6-dideoxy sugars via reductive amination
 AN 1985:437680 CAPLUS
 DN 103:37680
 TI .alpha.-Glucosidase inhibitors, 3. 4-(Alkylamino)-4,6-dideoxy sugars via reductive amination
 AU Koehn, Arnim; Schmidt, Richard R.
 CS Fak. Chem., Univ. Konstanz, Konstanz, D-7750, Fed. Rep. Ger.
 SO Liebigs Annalen der Chemie (1985), (4), 775-84
 CODEN: LACHDL; ISSN: 0170-2041
 DT Journal
 LA German
 OS CASREACT 103:37680
 GI



AB Alkylamino sugars structurally derived from acarbose were obtained by reductive amination of aldehydes or ketones with amino sugars in presence of NaCNBH₃. Amino sugars investigated were the 4-amino-4,6-dideoxy-D-glucose I, the 4'-amino-4',6'-dideoxymaltosides II (R = R₁ = R₃ = H, R₂ = NH₂; R = CH₂Ph, R₁ = OCH₂Ph, R₂ = NH₂, R₃ = H), and 4-amino-4,6-dideoxy-.alpha.-D-galactopyranosyl-(1.fwdarw.4)-.alpha.-D-glucopyranoside II (R = CH₂Ph, R₁ = OCH₂Ph, R₂ = H, R₃ = NH₂).

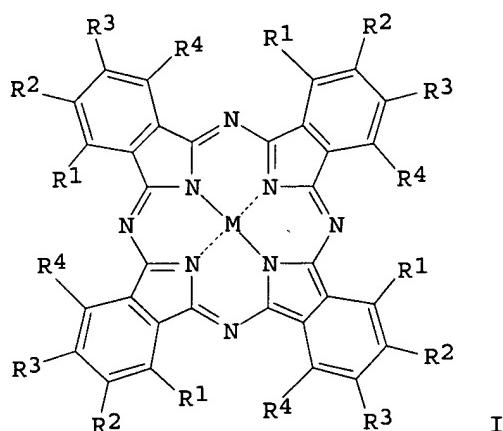
L18 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2003 ACS
 TI Reduction of reducible groups and their use
 AN 1983:421589 CAPLUS
 DN 99:21589
 TI Reduction of reducible groups and their use
 IN Eckert, Heiner
 PA Fed. Rep. Ger.
 SO Ger. Offen., 24 pp.
 CODEN: GWXXBX

DT Patent
 LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3121478	A1	19821216	DE 1981-3121478	19810529
	DE 3121478	C2	19860522		
	EP 66103	A1	19821208	EP 1982-103817	19820504
	EP 66103	B1	19850828		
	R: BE, CH, DE, FR, GB, IT, NL				
	US 4537713	A	19850827	DE 1981-3121478	19810529
				US 1982-379789	19820519
				DE 1981-3121478	19810529
	JP 57203018	A2	19821213	JP 1982-92058	19820529
				DE 1981-3121478	19810529

GI



AB Phthalocyanins I (M = Pt group metal, R1-R4 = H, halo, cyano, etc. an adjacent groups are benzo) catalyzed the redn. of C-C, C-N, N-N, or N-O double bonds, e.g., in NO₂, NO, NOH, etc. I could also be used for the removal of protective groups in peptides.

L18 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS
 TI N-Substituted pseudo-amino sugars and their use
 AN 1982:598515 CAPLUS
 DN 97:198515
 TI N-Substituted pseudo-amino sugars and their use
 IN Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi

PA Takeda Chemical Industries, Ltd. , Japan
SO Eur. Pat. Appl., 60 pp.

CODEN: EPXXDW

DT Patent

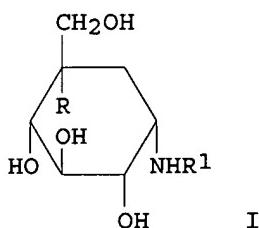
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 56194	A1	19820721	EP 1981-306141	19811224
	EP 56194	B1	19840912		
	R: BE, CH, DE, FR, GB, IT, NL, SE				
				JP 1981-561	19810105
				JP 1981-84635	19810602
				JP 1981-159657	19811006
	JP 57114554	A2	19820716	JP 1981-561	19810105
	JP 01061100	B4	19891227		
	JP 57200335	A2	19821208	JP 1981-84635	19810602
	JP 02038580	B4	19900831		
	JP 58059946	A2	19830409	JP 1981-159657	19811006
	JP 02039501	B4	19900905		
	US 4701559	A	19871020	US 1981-334986	19811228
				JP 1981-561	19810105
				JP 1981-84635	19810602
				JP 1981-159657	19811006
	CA 1184181	A1	19850319	CA 1982-393545	19820104
				JP 1981-561	19810105
				JP 1981-84635	19810602
				JP 1981-159657	19811006
	US 4777294	A	19881011	US 1987-39278	19870417
				JP 1981-561	19810105
				JP 1981-84635	19810602
				JP 1981-159657	19811006
	US 4803303	A	19890207	US 1981-334986	19811228
				US 1987-39277	19870417
				JP 1981-561	19810105
				JP 1981-84635	19810602
				JP 1981-159657	19811006
				US 1981-334986	19811228

OS CASREACT 97:198515

GI



AB The title sugars I [R = H, OH; R1 = (un)substituted C1-10 alkyl, (un)substituted C3-7 cycloalkyl] were prep'd. Thus, validamine was treated

with CO(CH₂OH)₂ and NaBH₃CN to give N-(1,3-dihydroxy-2-propyl)validamine. I showed excellent inhibitory activity against .alpha.-glucosidase and

are

therefore useful for hyperglycemic symptoms and various disorders caused by hyperglycemia.

L18 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2003 ACS
TI Valienamine derivatives and their use
AN 1982:528005 CAPLUS
DN 97:128005
TI Valienamine derivatives and their use
IN Horii, Satoshi; Kameda, Yukihiko; Fukase, Hiroshi
PA Takeda Chemical Industries, Ltd., Japan
SO Eur. Pat. Appl., 47 pp.
CODEN: EPXXDW

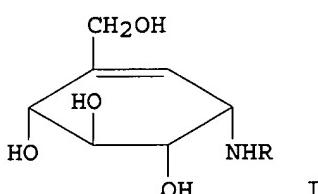
DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 49981	A1	19820421	EP 1981-304570	19811002
	EP 49981	B1	19840725		
	R: BE, CH, DE, FR, GB, IT, NL, SE			JP 1980-140172	19801006
	JP 57064648	A2	19820419	JP 1980-140172	19801006
	JP 63040418	B4	19880811		
	US 4486602	A	19841204	US 1981-306774	19810929
				JP 1980-140172	19801006
	CA 1173041	A1	19840821	CA 1981-387251	19811005
				JP 1980-140172	19801006

GI



AB Valienamine derivs. I [R = (un)substituted C1-10 alkyl, polyhydroxyalkyl, (un)substituted C3-7 cycloalkyl], with glucoside hydrolase inhibiting activity (activity given) and thus useful for hyperglycemic symptoms and various disorders caused by hyperglycemia, were prep'd. from valienamine. Thus, valienamine (4.0 g) was treated with 2.6 mL PhCH2Br in MeOH-dioxane in the presence of NaHCO3 to give 1.8 g N-benzylvalienamine.

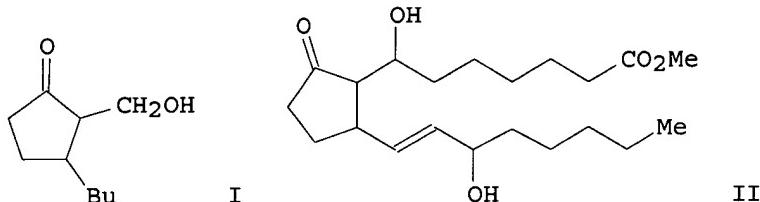
L18 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2003 ACS
TI Adjacently disubstituted ketones, prostaglandins E1 and antithrombotic compositions containing them
AN 1981:191784 CAPLUS
DN 94:191784
TI Adjacently disubstituted ketones, prostaglandins E1 and antithrombotic compositions containing them
IN Noyori, Ryoji; Suzuki, Masaaki; Kurozumi, Seizi
PA Teijin Ltd., Japan
SO Eur. Pat. Appl., 69 pp.
CODEN: EPXXDW
DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 19475	A2	19801126	EP 1980-301617	19800516
	EP 19475	A3	19810211		
	R: CH, DE, FR, GB				
	JP 55153725	A2	19801129	JP 1979-60293	19790518
	JP 01011620	B4	19890227	JP 1979-60293	19790518
	US 4315032	A	19820209	US 1980-149584	19800514
	JP 1979-60293			JP 1979-60293	19790518
	EP 38613	A1	19811028	EP 1981-200597	19800516
	EP 38613	B1	19840829		
	R: CH, DE, FR, GB				
	JP 01045331	A2	19890217	JP 1979-60293	19790518
	JP 03006127	B4	19910129	JP 1988-176940	19880718
				JP 1979-60293	19790518

GI



AB Cyclopentenones were subjected to reductive metalation-alkylation with CuI, an organolithium compd., and an aldehyde. Thus, BuLi in hexane was added dropwise to CuI, Bu₃P, and Et₂O under argon at -78.degree.,

BF3.Et2O added, 2-cyclopenten-1-one in Et₂O added dropwise, the mixt. stirred and warmed to -40.degree., THF added, and HCHO blown in with argon to give I. The method was extended to the synthesis of prostaglandin analogs such as II.

L18 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2003 ACS

TI Reductive amination of .alpha.,.beta.-unsaturated carbonyl compounds with tetracarbonylhaldidoferrate as a reducing agent

AN 1979:490641 CAPLUS

DN 91:90641

TI Reductive amination of .alpha.,.beta.-unsaturated carbonyl compounds with tetracarbonylhaldidoferrate as a reducing agent

AU Kim, Hong-Seok; Shim, Sang Chul; Shim, Sang Chull

CS Dep. Chem., Korea Adv. Inst. Sci., Seoul, S. Korea

SO Taehan Hwahakhoe Chi (1979), 23(2), 99-103

CODEN: DHWHAB; ISSN: 0418-2472

DT Journal

LA English

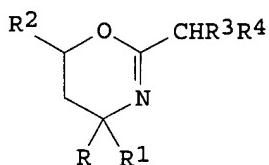
AB The reductive amination of RCH:CHCHO (R = Ph, Me, H) was carried out by KHFe(CO)₄ in the presence of primary amines. The products, secondary amines, were obtained in yields from 21 to 62%.

L18 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2003 ACS

TI Synthesis of aldehydes
 AN 1979:103418 CAPLUS
 DN 90:103418
 TI Synthesis of aldehydes
 IN Meyers, Albert I.
 PA Louisiana State University Agricultural and Mechanical College, USA
 SO U.S., 10 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 4131623	A	19781226	US 1969-840062	19690708
			US 1969-840062	19690708

GI



AB 1,3-Oxazines I (R, R1, R2 = H, Me, Et, Pr; R3 = R4 = H, Ph, cyano, OMe, carbalkoxy) were treated with alkali metal alkyls and electrophiles, the products were reduced by hydride, and the perhydrooxazines obtained were cleaved by oxalic acid to give the resp. R₅CR₃R₄CHO (R₅ = electrophile residue). The reaction of I (R = R1 = R2 = Me, R3 = R4 = H) with BuLi and styrene oxide and redn. and ring cleavage of the product gave HOCH₂CHPhCH₂CHO.

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STRUCTURE FILE UPDATES: 12 MAR 2003 HIGHEST RN 498527-50-7
 DICTIONARY FILE UPDATES: 12 MAR 2003 HIGHEST RN 498527-50-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

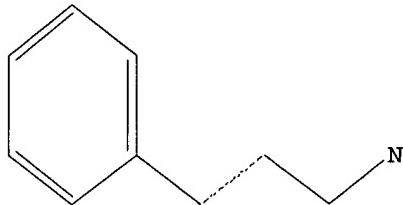
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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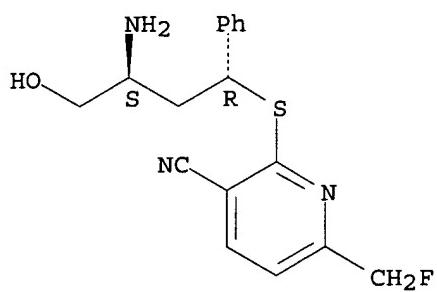
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PROJECTION ANSWERS: 549495 TO 569445

T20 50 SEA SSS SAM L19

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L20 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN 3-Pyridinecarbonitrile,
2-[(1R,3S)-3-amino-4-hydroxy-1-phenylbutyl]thio]-
6-(fluoromethyl)-(9CI)
MF C17 H18 F N3 O S
CI COM

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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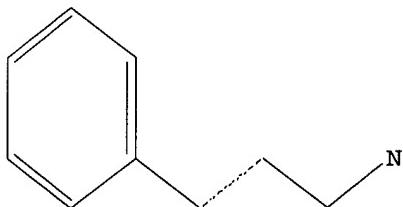
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L21 STRUCTURE UPLOADED

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L21 HAS NO ANSWERS

L21 STR



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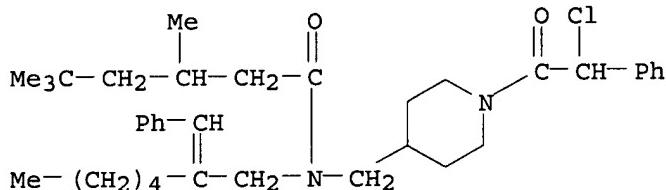
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PROJECTED ANSWERS: 53712 TO 60108

L22 50 SEA SSS SAM L21

=> d scan

L22 50 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Hexanamide, N-[1-(chlorophenylacetyl)-4-piperidinyl]methyl]-3,5,5-
trimethyl-N-[2-(phenylmethylen)heptyl]- (9CI)
MF C37 H53 Cl N2 O2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> search l21 sss full
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SEARCH TIME: 00.00.08

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BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 873928 TO 873928
PROJECTED ANSWERS: 54708 TO 56118

L23 25363 SEA SSS FUL L21

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ENTRY SESSION
CA SUBSCRIBER PRICE 0.00 -7.16

SESSION WILL BE HELD FOR 60 MINUTES
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Connecting via Winsock to STN

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FILE 'REGISTRY' ENTERED AT 14:33:03 ON 13 MAR 2003
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
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CA SUBSCRIBER PRICE	0.00	-7.16
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CA SUBSCRIBER PRICE	0.00	-7.16

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FILE COVERS 1907 - 13 Mar 2003 VOL 138 ISS 11
FILE LAST UPDATED: 12 Mar 2003 (20030312/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L3	13 L1 AND L2
L4	128275 PALLADIUM
L5	1 L3 AND L4
L6	0 RREDUCTIVE ALKYLATION
L7	2737 REDUCTIVE ALKYLATION
L8	13 L1 AND L7
L9	12 L8 NOT L3
L10	128275 PALLADIUM
L11	2 L9 AND L10

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E CINNAMALDEHYDE/CN

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L13 0 FILECAPLUS

FILE 'CAPLUS' ENTERED AT 14:20:26 ON 13 MAR 2003

L14 6852 L2 OR L7
L15 6420 L12
L16 9948 L15 OR L1
L17 33 L14 AND L16
L18 8 L17 NOT (L3 OR L9)

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L19 STRUCTURE UPLOADED
L20 50 SEARCH L19 SSS SAM
L21 STRUCTURE UPLOADED
L22 50 SEARCH L21 SSS SAM
L23 25363 SEARCH L21 SSS FULL

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L26 4 L4 AND L25

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L26 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS
TI Process for preparation of hydrazine derivatives
AN 2001:676764 CAPLUS
DN 135:227017
TI Process for preparation of hydrazine derivatives
IN Mizufune, Hideya; Nakamura, Minoru; Yamamoto, Hiroaki; Miki, Shokyo
PA Takeda Chemical Industries, Ltd., Japan
SO PCT Int. Appl., 126 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001066541	A1	20010913	WO 2001-JP1750	20010307
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RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,			

DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
JP 2000-68670 A 20000308
JP 2001322991 A2 20011120 JP 2001-64660 20010308
JP 2000-68670 A 20000308

OS CASREACT 135:227017; MARPAT 135:227017

AB This document discloses industrial processes for prep. hydrazine derivs.,

e.g. R1R2NNHCHR3R4 [wherein R1, R2, R3 and R4 are each hydrogen, an optionally substituted hydrocarbon group, or the like] by reducing hydrazone derivs. with a solid amine-borane complex. These processes make

it possible to prep. hydrazine derivs. useful as drugs, agricultural chems., foods, cosmetics, or chem. products, or intermediates thereof. Thus, 4-(6-chloronaphthalen-2-sulfonyl)-1-[1-(4-pyridyl)-4-piperidinylamino]-2-piperazinone was prep'd. in 84% yield by redn. of the corresponding hydrazone deriv. by borane dimethylamine complex.

RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L26 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS
TI Palladium-Copper Catalyzed Synthesis of Benzofused Heterocycles with Two Heteroatoms: Novel and Highly Regio- and Stereoselective Syntheses of (E)-2-(2-Arylvinyl)-3-tosyl-2,3-dihydro-1,3-benzothiazoles and (E)-2-Alkyl(aryl)idene-3,4-dihydro-2H-1,4-benzothiazines
AN 2001:412561 CAPLUS
DN 135:152767
TI Palladium-Copper Catalyzed Synthesis of Benzofused Heterocycles with Two Heteroatoms: Novel and Highly Regio- and Stereoselective Syntheses of (E)-2-(2-Arylvinyl)-3-tosyl-2,3-dihydro-1,3-benzothiazoles and (E)-2-Alkyl(aryl)idene-3,4-dihydro-2H-1,4-benzothiazines
AU Kundu, Nitya G.; Nandi, Bidisha
CS Department of Organic Chemistry, Indian Association for the Cultivation of
Science, Jadavpur Calcutta, 700 032, India
SO Journal of Organic Chemistry (2001), 66(13), 4563-4575
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 135:152767
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB A highly novel, general, and convenient palladium and copper-catalyzed procedure has been developed for the synthesis of (E)-arylvinyl dihydrobenzothiazoles such as I (R = Ph, 1-C₁₀H₇, 2-C₁₀H₇, 3-ClC₆H₄, 2-MeC₆H₄, 4-MeC₆H₄, 4-MeOC₆H₄, 2-MeO₂CC₆H₄, 2-thienyl, 2,4-dimethoxy-5-pyrimidinyl) and II (X = 1,3-C₆H₄, 1,4-C₆H₄, 2,5-thiophenediyl). Aminophenylthiopropyne 2-H₂NC₆H₄SCH₂C.tpbond.CH reacts with aryl iodides RI in the presence of dichlorobis(triphenylphosphine)palladium and copper (I) iodide to give disubstituted alkynes which undergo tosylation to give cyclization substrates such as arylpropynylthio-N-tosylanilines III (R = Ph, 1-C₁₀H₇, 2-C₁₀H₇, 3-ClC₆H₄, 2-MeC₆H₄, 4-MeC₆H₄, 4-MeOC₆H₄, 2-MeO₂CC₆H₄, 2-thienyl,

2,4-dimethoxy-5-pyrimidinyl). III undergo novel cyclizations in the presence of CuI and triethylamine in THF to give dihydrobenzothiazoles I regio- and stereoselectively rather than the expected alkylidenedihydrobenzothiazines. Arylethyl benzothiazolines IV (R1 = Ph, 1-C10H7, 2-C10H7, 4-MeC6H4, 4-MeOC6H4, 2-MeO2CC6H4), (E)-arylvinyl benzothiazoles such as V (R2 = Ph, 1-C10H7, 2-C10H7, 4-MeC6H4, 4-MeOC6H4, 2-MeO2CC6H4) and a novel 5-substituted uracil deriv. of potential biol. importance were also prep'd. The palladium-copper-catalyzed arylation of propynylaminophenyl dimethylthiocarbamate 2-[Me2NC(:O)S]C6H4NHCH2C.tplbond.CH (VI) with aryl iodides gave the substituted arylpropynylaminophenyl dimethylthiocarbamates VII 2-[Me2NC(:O)S]C6H4NR3CH2C.tplbond.CR4 (R3 = H, Me, PhCH2; R4 = Ph, 1-C10H7, 2-C10H7, 3-C1C6H4, 2-MeC6H4, 4-MeC6H4, 4-MeOC6H4, 2-MeO2CC6H4, 2-thienyl); cyclization of VII with KOH in methanol leads to (E)-arylmethylenedihydrobenzothiazines VIII (R3 = H, Me, PhCH2; R4 = Ph, 1-C10H7, 2-C10H7, 3-C1C6H4, 2-MeC6H4, 4-MeC6H4, 4-MeOC6H4, 2-MeO2CC6H4, 2-thienyl). Reaction of 1,2-diiodobenzene, 1,4-diiodobenzene, and 2,5-diiodothiophene with VI in the presence of dichlorobis(triphenylphosphine)palladium and copper (I) iodide involved the participation of only one of the iodo groups in the heteroannulation process to give VIII (R3 = H; R4 = 2-IC6H4, 4-IC6H4, 5-iodothiophen-2-yl). VIII (R3 = H; R4 = 4-IC6H4, 5-iodothiophen-2-yl) underwent Heck reaction and Sonogashira coupling, resp., to give VIII [R3 = H; R4 = 5-(trans-methoxycarbonylvinyl)thiophen-2-yl, 4-(PhC.tplbond.C)C6H4].

RE.CNT 129 THERE ARE 129 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

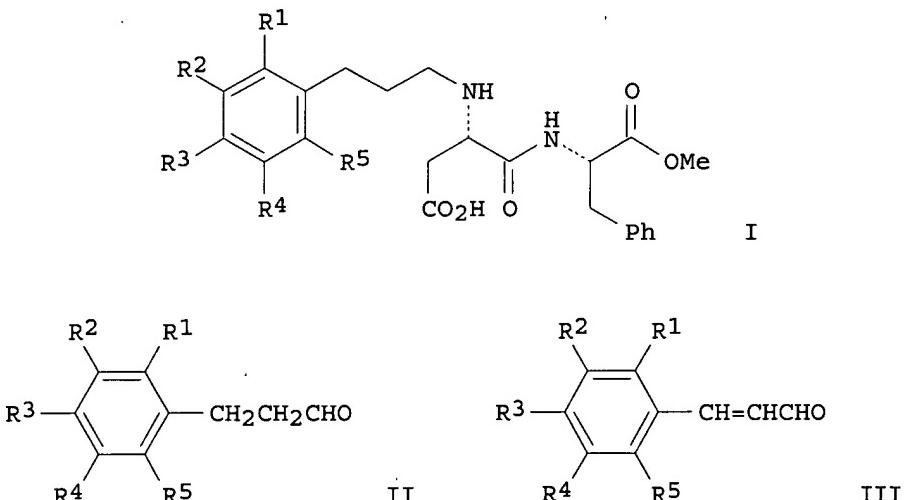
L26 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS
 TI Process for the production of aspartyldipeptide ester derivatives, novel intermediates therefor and process for the production of the intermediates
 AN 2001:265443 CAPLUS
 DN 134:281142
 TI Process for the production of aspartyldipeptide ester derivatives, novel intermediates therefor and process for the production of the intermediates
 IN Nagashima, Kazutaka; Aoki, Yuichi; Takemoto, Tadashi; Amino, Yusuke; Funakoshi, Nao; Ono, Eriko
 PA Ajinomoto Co., Inc., Japan
 SO PCT Int. Appl., 39 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001025260	A1	20010412	WO 2000-JP6626	20000926
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			

JP 1999-287398 A 19991007

JP 1999-371284 A 19991227

AU 2000073219	A5	20010510	AU 2000-73219	20000926
			JP 1999-287398 A 19991007	
			JP 1999-371284 A 19991227	
			WO 2000-JP6626 W 20000926	
EP 1231215	A1	20020814	EP 2000-961237	20000926
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,			JP 1999-287398 A 19991007	
IE, SI, LT, LV, FI, RO, MK, CY, AL			JP 1999-371284 A 19991227	
			WO 2000-JP6626 W 20000926	
US 2002133037	A1	20020919	US 2002-117196	20020408
			JP 1999-287398 A 19991007	
			JP 1999-371284 A 19991227	
			WO 2000-JP6626 A120000926	



AB Industrial and efficient processes for producing aspartylidipeptide ester derivs. of general formula (I; R1-R5 = H, OH, C1-3 alkoxy, C1-3 alkyl, benzyloxy, C2-3 hydroxyalkyloxy; or R1 and R2 or R2 and R3 together represents methylenedioxy), which are expected to serve as sweetener (no data), comprise reductive alkylation of aspartame with propionaldehydes
or cinnamaldehydes of general formulas (II) and (III) in the presence of a catalyst. Particularly, described are an industrial and efficient process for producing N-[N-[3-(3-hydroxy-4-methoxyphenyl)propyl]-L-aspartyl]-L-phenylalanine 1-Me ester (IV) which is excellent as high sweetener; useful and advantageous intermediates for the process; and efficient processes for producing the intermediates. Thus, 5.89 g aspartame and 3.42 g 3-(3-hydroxy-4-methoxyphenyl)propionaldehyde (prepn. given) were added to 200 mL 80% aq. methanol, stirred at 40.degree. for a while, and hydrogenated in the presence of 1.78 10% Pd-C at 0.1 M Pa and 40.degree. for 40 h to give 78.9% IV.

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L26 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS
 TI Palladium-catalyzed chemoselective intramolecular cyclization of
 bromoanilinoalkenenitriles
 AN 1997:706418 CAPLUS
 DN 128:22487
 TI Palladium-catalyzed chemoselective intramolecular cyclization of
 bromoanilinoalkenenitriles
 AU Yang, Chau-Chen; Tai, Huo-Mu; Sun, Pei-Jiun
 CS Department of Cosmetic Science, Chia Nan College of Pharmacy and Science,
 Tainan, 717, Taiwan
 SO Journal of the Chemical Society, Perkin Transactions 1: Organic and
 Bio-Organic Chemistry (1997), (19), 2843-2850
 CODEN: JCPRB4; ISSN: 0300-922X
 PB Royal Society of Chemistry
 DT Journal
 LA English
 AB .alpha.- (O-Bromoanilino)alkenenitriles 2-BrC₆H₄NMeCHRCN (R = MeCH:CH,
 PrCH:CH, etc.) and 2-BrC₆H₄NMeC(CN):CHR₁ (R₁ = Et, Bu, CHMe₂, CH₂Ph,
 EtCH:CH) and .alpha.- (N-alkenylamino)-.beta.- (o-
 bromophenyl)propanenitriles 2-BrC₆H₄CH₂CH(CN)NRCH₂CH:CR₁R₂ (R = Ph,
 CH₂Ph,
 R₁ = H, Me, Ph, R₂ = H, Me) undergo palladium-catalyzed
 conversion into o-(methylamino)benzonitrile, o-
 [(alkenylamino)ethenyl]benzonitriles, N-alkenylanilines, 3-benzazepines,
 .gamma.-carbolines and a pyrrolo[3,2-b]indole. The reactions involve
 intramol. addns. of arylpalladium to the cyano group and subsequent
 processes such as cyano group transposition, hydrolysis,
 electrocyclization, Et group transfer and oxidative aromatization. A
 general mechanism for the palladium-catalyzed arylation of a
 cyano group is proposed.
 RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

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	ENTRY	SESSION	
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NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4 Apr 09 ZDB will be removed from STN
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and
IFIUDB
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and
ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;
saved answer sets no longer valid
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 26 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 27 Oct 21 EVENTLINE has been reloaded
NEWS 28 Oct 24 BEILSTEIN adds new search fields
NEWS 29 Oct 24 Nutraceuticals International (NUTRACEUT) now available on
STN
NEWS 30 Oct 25 MEDLINE SDI run of October 8, 2002
NEWS 31 Nov 18 DKILIT has been renamed APOLLIT
NEWS 32 Nov 25 More calculated properties added to REGISTRY
NEWS 33 Dec 02 TIBKAT will be removed from STN
NEWS 34 Dec 04 CSA files on STN
NEWS 35 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 36 Dec 17 TOXCENTER enhanced with additional content
NEWS 37 Dec 17 Adis Clinical Trials Insight now available on STN
NEWS 38 Dec 30 ISMEC no longer available
NEWS 39 Jan 13 Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 40 Jan 21 NUTRACEUT offering one free connect hour in February 2003
NEWS 41 Jan 21 PHARMAML offering one free connect hour in February 2003
NEWS 42 Jan 29 Simultaneous left and right truncation added to COMPENDEX,
ENERGY, INSPEC
NEWS 43 Feb 13 CANCERLIT is no longer being updated
NEWS 44 Feb 24 METADEX enhancements
NEWS 45 Feb 24 PCTGEN now available on STN
NEWS 46 Feb 24 TEMA now available on STN
NEWS 47 Feb 26 NTIS now allows simultaneous left and right truncation
NEWS 48 Feb 26 PCTFULL now contains images
NEWS 49 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results